# This Page Is Inserted by IFW Operations and is not a part of the Official Record

# BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

# IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

## PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	PREVIOUSLY DOGKETED Atty: 67M		
To: GEORGE MARCOU KILPATRICK STOCKTON LLP 607 FOURTEENTH ST., N.W. SUITE 900	Docker/Matter No: SA: COOG7 Action: IDS Due: 1/30/04 NOTIFICATION OF TRANSMITTAL OF 17/3, 12/37 THE INTERNATIONAL SEARCH REPORT		
WASHINGTON, DC 20005	OR THE DECLARATION		
WBS Shitne OCT 6 2003 Ripertor	(PCT Rule 44.1)		
Reporter	Date of Mailing (day/month/year) 03 UC   2003		
Applicant's or agent's file reference SAIC0067-PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below		
International application No. PCT/US03/21691	International filing date (day/month/year)  11 July 2003 (11.07.2003)		
Applicant SCIENCE APPLICATIONS INTERNATIONAL CORPORATI			
1. The applicant is hereby notified that the international search	ch report has been established and is transmitted herewith.		
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the cla	ims of the international application (see Rule 46):		
When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.			
Where? Directly to the International Bureau of WIPO 1211 Geneva 20, Switzerland, Facsimile No.			
For more detailed instructions, see the notes on the ac	ecompanying sheet.		
2. The applicant is hereby notified that no international search Article 17(2)(a) to that effect is transmitted herewith.	h report will be established and that the declaration under		
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:			
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.			
no decision has been made yet on the protest; the app	olicant will be notified as soon as a decision is made.		
applicant wishes to avoid or postpone publication, a notice of wit	nal application will be published by the International Bureau. If the hdrawal of the international application, or of the priority claim, must and 90 bis.3, respectively, before the completion of the technical		
Within 19 months from the priority date, but only in respect examination must be filed if the applicant wishes to postpone the	of some designated Offices, a demand for international preliminary entry into the national phase until 30 months from the priority date in 20 months from the priority date, perform the prescribed acts for		
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.			
See the Annex to Form PCT/IB/301 and, for details about the ap Volume II, National Chapters and the WIPO Internet site.	plicable time limits, Office by Office, see the PCT Applicant's Guide,		
Name and mailing address of the ISA/US	Authorized officer		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450	Andrew M Waxman Jugenia 30900		
Alexandria, Virginia 22313-1450	Telephone No. (703) 305-4700		

Facsimile No. (703) 305-3230 Form PCT/ISA/220 (April 2002)

(See notes on accompanying sheet)

# PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or SAIC0067-PC	r agent's file reference T	FOR FURTHER ACTION  see Notification of Transmittal of International Sear (Form PCT/ISA/220) as well as, where applicable, below.			
International a PCT/US03/21	application No. 691			(Earliest) Priority Date (day/month/year) 30 September 2002 (30.09.2002)	
Applicant SCIENCE APPLICATIONS INTERNATIONAL CORPORATION					
applicant acc	ording to Article 18. A co	py is being transmitted to the Int		Authority and is transmitted to the Bureau.	
This international search report consists of a total of sheets.  It is also accompanied by a copy of each prior art document cited in this report.					
a. W la: b. W	nguage in which it was filed the international search was Authority (Rule 23.1(b)). Ith regard to any nucleotide	, unless otherwise indicated under scarried out on the basis of a trans	this item. lation of th	ne basis of the international application in the ne international application furnished to this the international application, the international	
	contained in the internation filed together with the inter	al application in written form.  national application in computer re	eadable for	m.	
	• •	nis Authority in written form. nis Authority in computer readable	form.		
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
	the statement that the information been furnished.	nation recorded in computer reada	ble form is	s identical to the written sequence listing has	
2.		l unsearchable (See Box I).			
3 4. With re-	Unity of invention is lacki gard to the title,	ng (See Box II).			
	the text is approved as subr	nitted by the applicant.			
the text has been established by this Authority to read as follows:					
5. With re	gard to the abstract,				
	the text is approved as subr	• ••	.:. A	mania anno ania Dan III. M	
	the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.				
6. The figu	are of the drawings to be pu	iblished with the abstract is Figure	No. <u>1</u>		
	as suggested by the applica			None of the figures	
	because the applicant failed	to suggest a figure.			
	because this figure better c	haracterizes the invention.			

Form PCT/ISA/210 (first sheet) (July 1998)

## INTERNATIONAL SEARCH REPORT

International application No.

	PCT/US03/21691			
Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)				
The present invention relates to a system (100) and method for extending the coverage area and communication capacity of a spread spectrum based wireless network through the use of intelligent repeaters (130). The system (100) comprises a wireless communications network augmented with low cost channel selective repeaters (130) that is capacle of repeating only desired signals, thereby suppressing undesirable interference and increasing network capacity. The repeaters (130) can be integrated into an existing wireless network with minimal impact to the existing network topology or control structure.				

Form PCT/ISA/210 (continuation of first sheet(2)) (July 1998)

INTERN	ATIONAL SEARCH RE	PORT		
			<del></del>	
		•		
Continuation of B. FI 455/11.1, 442, 7-25, 179 498,500-501,	ELDS SEARCHED Item 1: .1; 370/279, 501, 276-296, 310	),315-321,328-332, 335-	337, 342-344, 431, 441-44	3, 445, 478-480, 491-492,
			-	
			•	
<b>5</b>				

PCT/US03/21691

Form PCT/ISA/210 (second sheet) (July 1998)

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/21691

A. CLA IPC(7)	SSIFICATION OF SUBJECT MATTER : H04B 7/15; H04J 3/08			
US CL	: 455/11.1, 442, 370/279, 501			
	International Patent Classification (IPC) or to both	ational classification and	I IPC	
B. FIEL	DS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: Please See Continuation Sheet				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) IEEExplore				
C. DOC	UMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	propriate, of the relevan	it passages	Relevant to claim No.
X	US 5,809,398 A (MOBERG et al) 15 September 19	98 (15.09.1998), column	6 lines 16-	1,2,4,6,7
Y	24, 31-35, 50-67, and column 4 lines 46-58.			3,5
Y	3GPP: Technical Specification Group Radio Access Multiple Access (3G TR 25.924 version 1.0.0), 19		Oriven	3,5
	documents are listed in the continuation of Box C.	See patent fam		
"A" document	pecial categories of cited documents:  defining the general state of the art which is not considered to be alar relevance	date and not in co principle or theor	nflict with the applic y underlying the inve	
"E" earlier ap	plication or patent published on or after the international filing date	considered novel	or cannot be consider	claimed invention cannot be ed to involve an inventive step
"L" document establish specified)	which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	considered to inve	cular relevance; the o	claimed invention cannot be when the document is
"O" document	referring to an oral disclosure, use, exhibition or other means		e or more other such a person skilled in the	documents, such combination art
priority d	published prior to the international filing date but later than the ate claimed		r of the same patent f	,
Date of the a	Date of the actual completion of the international search  Date of mailing of the international search report			
28 August 2003 (28.08.2003) 0 3 UC   ZUU3			70 <b>03</b>	
	ailing address of the ISA/US	Authorized officer	$\sigma$	
Con	il Stop PCT, Attn: ISA/US nmissioner for Patents	Andrew M Waxman	X 11010.	in Konn
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450  Address of the ISA/US Andrew M Waxman Telephone No. (703) 365,4700				
Facsimile No. (703)305-3230				

#### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below

**How?** Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

### What documents must/may accompany the amendments?

#### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.